

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN THE APPLICATION OF:  
GLASSMAN ET AL.

CASE NO.: BB1449 US NA

APPLICATION NO.: UNKNOWN

GROUP ART UNIT: UNKNOWN

FILED: CONCURRENTLY HEREWITH

EXAMINER: UNKNOWN

FOR: **RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE  
EXPRESSION**


Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

**DECLARATION IN ACCORDANCE WITH 37 CFR 1.821**

I hereby state that the content of the paper and computer readable copies of the  
Sequence Listing, submitted in accordance with 37 CFR 1.821(c) and (e), respectively are the  
same.

Respectfully submitted,

  
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ATTORNEY FOR APPLICANTS  
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Dated: 22 June 2001

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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN  
APPLICATION DATA SHEET (37 CFR 1.76)**

As the below named inventor(s), I/we declare that:

This declaration is directed to:

☒ The attached application, docket BB1449 US NA or

☐ Application No. \_\_\_\_\_, filed on \_\_\_\_\_,

☐ as amended on \_\_\_\_\_ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

I/ we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including material information which became available between the filing date of the prior application and the National or PCT International filing date of the continuation-in-part application, if applicable; and

All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

**FULL NAME OF INVENTOR(S)**

Inventor one: KIMBERLY F. GLASSMAN

Signature: \_\_\_\_\_ Citizen of: U.S.A.

Inventor two: WILLIAM J. GORDON-KAMM

Signature: \_\_\_\_\_ Citizen of: U.S.A.

Inventor three: ANTHONY J. KINNEY

Signature: \_\_\_\_\_ Citizen of: UNITED KINGDOM

Inventor four: KEITH S. LOWE

Signature: \_\_\_\_\_ Citizen of: U.S.A.

☐ Additional inventors are being named on 1 additional form(s) attached hereto.

Burden Hour Statement: This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is used by the public to file (and the PTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 1 minute to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

FULL NAME OF INVENTOR(S)	
Inventor one:	<u>SCOTT E. NICHOLS</u>
Signature: _____	Citizen of: <u>U.S.A.</u>
Inventor two:	<u>KEVIN L. STECCA</u>
Signature: _____	Citizen of: <u>U.S.A.</u>
Inventor three:	_____
Signature: _____	Citizen of: _____
Inventor four:	_____
Signature: _____	Citizen of: _____

# SEQUENCE LISTING

<110> Glassman, Kimberly F.  
Gordon-Kamm, William J.  
Kinney, Anthony  
Lowe, Keith S.  
Nichols, Scott E.  
Stecca, Kevin L.

<120> RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE EXPRESSION

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<211> 33

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<210> 23  
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<220>  
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<210> 24  
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 Val Met Asp Cys Phe Cys Glu Pro Thr Trp Gly His Thr Lys Gln Tyr  
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 Tyr Glu Pro Asn Leu Ala Thr Tyr Arg Asp Leu Leu Gln Thr Val Gln  
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 Arg Gly Gly Ser Gly Arg Ala Phe Val Thr Phe Leu Ala Gly Asn Gly  
 50 55 60  
 Asp Tyr Val Lys Gly Val Val Gly Leu Ala Lys Gly Leu Arg Lys Ala  
 65 70 75 80  
 Lys Ser Met Tyr Pro Leu Val Val Ala Val Leu Pro Asp Val Pro Glu  
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 Glu His Arg Glu Ile Leu Lys Ser Gln Gly Cys Ile Val Arg Glu Ile  
 100 105 110  
 Glu Pro Val Tyr Pro Pro Glu Asn Gln Thr Gln Phe Ala Met Ala Tyr  
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Tyr Val Ile Asn Tyr Ser Lys Leu Arg Ile Trp Glu Phe Val Glu Tyr  
 130 135 140  
 Lys Lys Thr Ile Tyr Leu Asp Gly Asp Ile Gln Val Phe Gly Asn Ile  
 145 150 155 160  
 Asp His Leu Phe Asp Leu Pro Asp Asn Tyr Phe Tyr Ala Val Met Asp  
 165 170 175  
 Cys Phe Cys Glu Lys Thr Trp Ser His Thr Pro Gln Phe Gln Ile Gly  
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 Tyr Cys Gln Gln Cys Pro Asp Lys Val Gln Trp Pro Ser His Phe Gly  
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 Ser Lys Pro Pro Leu Tyr Phe Asn Ala Gly Met Phe Val Tyr Glu Pro  
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 Asn Leu Asp Thr Tyr Arg Asp Leu Leu Gln Thr Val Gln Leu Thr Lys  
 225 230 235 240  
 Pro Thr Ser Phe Ala Glu Gln Asp Phe Leu Asn Met Tyr Phe Lys Asp  
 245 250 255  
 Lys Tyr Lys Pro Ile Pro Asn Met Tyr Asn Leu Val Leu Ala Met Leu  
 260 265 270  
 Trp Arg His Pro Glu Asn Val Glu Leu Asp Lys Val Gln Val Val His  
 275 280 285  
 Tyr Cys Ala Ala Gly Ser Lys Pro Trp Arg Phe Thr Gly Lys Glu Glu  
 290 295 300  
 Asn Met Asp Arg Glu Asp Ile Lys Met Leu Val Lys Lys Trp Trp Asp  
 305 310 315 320  
 Ile Tyr Glu Asp Glu Thr Leu Asp Tyr Asn Asn Asn Ser Val Asn Val  
 325 330 335  
 Glu Arg Phe Thr Ser Ala Leu Leu Asp Ala Gly Gly Phe Gln Phe Val  
 340 345 350  
 Pro Ala Pro Ser Ala Ala  
 355

<210> 34  
 <211> 515  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: SHH3 complementary  
 region of PHP17939

<400> 34  
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 agattgacgg ttgattgtat ttttggtttt tatgggtttt tgttatgact taagtcttca 180

tctctttatc	tcttcatcag	gtttgacggt	tacttaatat	ggtgcatgca	tgggtacatc	240
actagaaacc	atggaaggta	ccaagatatc	aaccgcggaa	agatcgtaca	aatggcatgt	300
taaataaccg	tcaaacctga	tgaagagata	aagagatgaa	gacttaagtc	ataacacaaa	360
accataaaaa	acaaaaatac	aatcaaccgt	caatctgacc	aatgcatgaa	aaagctgcaa	420
tagtgagtgg	cgacacaaag	cacatgattt	tcttacaacg	gagataaaac	caaaaaaata	480
tttcatgaac	aacctagaac	aaataaagcg	ttaac			515

<210> 35  
 <211> 1968  
 <212> DNA  
 <213> Glycine max

atgccacaca	acacaatggc	ggccaccgct	tccagaacca	cccgattctc	ttcttctctc	60
tcacacccca	ccttcccca	acgcattact	agatccaccc	tccctctctc	tcaccaaacc	120
ctcaccaaac	ccaaccacgc	tctcaaaaatc	aaatgttcca	tctccaaacc	ccccacggcg	180
gcgcccttca	ccaaggaagc	gccgaccacg	gagcccttcg	tgteacgggt	cgctccggc	240
gaacctcgca	agggcgcgga	catccttggt	gaggcgctgg	agaggcaggg	cgtgacgacg	300
gtgttcgctg	accccgggcg	tgctgcgatg	gagatccacc	agggcgctcac	gcgctccgcc	360
gccatccgca	acgtgctccc	gcgccacgag	cagggcgggc	tcttcgccc	cgaaggctac	420
gcgcgttctc	ccggcctccc	cggcgtctgc	attgccacct	ccggcccccg	cgccaccaac	480
ctcgtgagcg	gcctcgccga	cgctttaatg	gacagcgctc	cagtcgtcgc	cateaccggc	540
caggctcgcc	gccggatgat	cggcaccgac	gccttccaag	aaaccccgat	cgtggagggtg	600
agcagatcca	tcacgaagca	caactacctc	atcctcgacg	tcgacgacat	cccccgctc	660
gtcgccgagg	ctttcttcgt	cgccacctcc	ggccgccccg	gtccggctct	catcgacatt	720
cccaaagacg	ttcagcagca	actcgccgtg	cctaattggg	acgagcccg	taacctcccc	780
ggttacctcg	ccaggctgcc	caggcccccc	gccgaggccc	aattggaaca	cattgtcaga	840
ctcatcatgg	aggcccaaaa	gcccgttctc	tacgtcgggc	gtggcagttt	gaattccagt	900
gctgaattga	ggcgctttgt	tgaactcaat	ggtattcccg	ttgctagcac	tttaattgggt	960
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gtttatgcta	actatgctgt	tgacaatagt	gatttggtgc	ttgcctttgg	ggtaagggtt	1080
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actaatggag	atgctattgt	tagtactggg	gttgggcagc	atcaaagtgt	ggctgcgcag	1440
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tttggtattgc	ctgcggctat	tggtgctgct	gttgctaacc	ctggggctgt	tgtggttgac	1560
attgatgggg	atggtagttt	catcatgaat	gttcaggagt	tggccactat	aagagtggag	1620
aatctcccag	ttaagatatt	gttggtgaac	aatcagcatt	tgggtatggg	ggttcagttg	1680
gaggataggt	tctacaagtc	caatagagct	cacacctatc	ttggagatcc	gtctagcgag	1740
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gtgacgaaga	aggaagagct	tagagcggca	attcagagaa	tggttgacac	ccctggcccc	1860
taccttcttg	atgtcattgt	gccccatcag	gagcatgtgt	tgccgatgat	tcccagtaat	1920
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<210> 36  
 <211> 22  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: PCR primer for amplification of soybean Fad2-1, 3'-end 50 nucleotide fragment

<400> 36  
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32